EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	142	((persistent$3 or permanent$3) near2 connection) and (time adj interval) and load adj balancing	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:26
L2	404460	fujitsu$.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:26
L3	213	l2 and load adj balanc$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:29
L4	4	l3 and ((permanent$3 or persistent$3) near3 (connection or link))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:29
L5	24470	load adj balanc$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:29
L6	909	l5 and ((permanent$3 or persistent$3) near3 (connection or link))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:29
L7	111	l6 and interval same connection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:29
L8	13	l7 and optimum	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:02
L9	45	ipcom	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 13:08

L10	9	l9 and load	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 13:53
L11	520	718/106.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 13:58
L12	102	L11 and balanc$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 13:59
L13	981	718/105.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 13:58
L14	5	L9 and balanc$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 13:59
L15	11212	709/201-203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:02
L16	255	L15 and ((establish$5 or connect$3) near5 ((persistent$3 or permanent$3) near3 connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:02
L17	1	"L17" and ((establish$5 or connect$3) near5 ((persistent$3 or permanent$3) near3 connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:01
L18	255	L15 and ((establish$5 or connect$3) near5 ((persistent$3 or permanent$3) near3 connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:01
L19	2146	709/228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:01

EAST Search History

L20	66	L19 and ((establish$5 or connect$3) near5 ((persistent$3 or permanent$3) near3 connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:01
L21	34845	709/217-230.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:02
L22	765	L21 and ((establish$5 or connect$3) near5 ((persistent$3 or permanent$3) near3 connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:02
L23	46	l22 and optimum	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 14:02
S1	24474	load adj balanc$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:28
S2	729	S1 and ((persistent$3 or permanent$3) near2 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:33
S3	146	S2 and time adj interval	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:26
S4	10	S3 and optimum	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:40
S5	111	S3 and best	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:40
S6	8	S3 and best near5 connection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:40

S7	520	718/106.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:42
S8	102	S7 and balanc$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 13:58
S9	981	718/105.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 13:58
S10	30	S9 and ((persistent$3 or permanent$3) near2 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:43
S11	8	S9 and (establish$5 same ((persistent$3 or permanent$3) same connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:38
S12	1221	(establish$5 near5 ((persistent$3 or permanent$3) near3 connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:53
S13	90	S12 and load adj balanc$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:47
S14	16	S13 and time adj interval	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:47
S15	2146	709/228.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 19:53
S16	18	S15 and (establish$5 near5 ((persistent$3 or permanent$3) near3 connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:34

EAST Search History

S17	11212	709/201-203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:34
S18	1619	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:34
S20	20	S18 and ((establish$5 or connect$3) near5 ((persistent$3 or permanent$3) near3 connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:35
S21	1943	websphere	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:37
S22	317	S21 and interval	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:37
S23	8	S22 and ((persistent$3 or permanent$3) near3 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:37
S24	34223	application adj server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:37
S25	170	S22 and interval near2 time	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:37
S26	5	S25 and ((persistent$3 or permanent$3) near3 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:43
S27	507	load adj balancing adj server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:45

EAST Search History

S28	14	S27 and (establish$5 same ((persistent$3 or permanent$3) same connection))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:38
S29	2	websphere same ((persistent$3 or permanent$3) near3 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:43
S30	1	load adj balancing adj server same ((persistent$3 or permanent$3) near3 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:46
S31	44	load adj balancing same ((persistent$3 or permanent$3) near3 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:53
S32	2	load adj balancing and optimum near3 ((persistent$3 or permanent$3) near3 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 20:54
S33	6	(("7024508") or ("7035877") or ("20030101023") or ("7116237") or ("20050187732") or ("6906638")).PN.	US-PGPUB; USPAT	OR	OFF	2007/10/26 22:15
S34	114	optimum near2 value near5 connection	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:16
S35	14	S34 and time adj interval	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:16
S36	37137	load near2 balanc$5	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:22
S37	903	S36 and (persistent$5 or permanent$3) near2 (connection or link)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:23

S38	263	S37 and (period same connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:23
S39	127	S38 and ((optimum or best or better) same connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:24
S40	60	S39 and (time adj interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:25
S41	3162	server adj farm	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:25
S42	134	S41 and ((persistent$3 or permanent$3) near2 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:25
S43	34	S42 and time adj interval	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:33
S44	4270	end adj server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:33
S45	79	S1 same ((persistent$3 or permanent$3) near2 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:53
S46	18940	((persistent$3 or permanent$3) near2 connection)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:54
S47	47	((persistent$3 or permanent$3) near2 connection) same (time adj interval)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/26 22:56

EAST Search History

S48	17	((persistent$3 or permanent$3) near2 connection) same (time adj interval) and load	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/10/27 12:21

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Relevance scale

1 Operating system principles
Per Brinch Hansen
January 1973 Book
Publisher: Prentice-Hall, Inc.
Full text available: pdf(16.81 MB) Additional Information: full citation, abstract, references, cited by, index terms

From the Preface

MAIN GOAL

This book tries to give students of computer science and professional programmers a general understanding of *operating systems*--the programs that enable people to share computers efficiently.

To make the sharing of a computer tolerable, an operating system must enforce certain rules of behavior on all its users. One would therefore expect the designers of operating systems to do their utmost to make them as s ...

2 The state of the art in locally distributed Web-server systems
Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Tashkent+: memory-aware load balancing and update filtering in replicated databases

Sameh Elnikety, Steven Dropsho, Willy Zwaenepoel

March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the 2007 conference on EuroSys EuroSys '07**, Volume 41 Issue 3

Publisher: ACM Press

Full text available: pdf(320.18 KB) Additional Information: full citation, abstract, references, index terms

We present a *memory-aware* load balancing (MALB) technique to dispatch transactions to replicas in a replicated database. Our MALB algorithm exploits knowledge of the working sets of transactions to assign them to replicas in such a way that they execute in main memory, thereby reducing disk I/O. In support of MALB, we introduce a method to estimate the size and the contents of transaction working sets. We also present an optimization called *update filtering* that reduces the over ...

Keywords: database replication, load balancing

5 Protecting web servers from distributed denial of service attacks

Frank Kargl, Joern Maier, Michael Weber

April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

Publisher: ACM Press

Full text available: pdf(390.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: DDoS, Linux, class based routing, distributed denial of service attacks, web server security

6 Process migration

Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songnian Zhou

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more

attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

7 Consistent hashing and random trees: distributed caching protocols for relieving hot spots on the World Wide Web

David Karger, Eric Lehman, Tom Leighton, Rina Panigrahy, Matthew Levine, Daniel Lewin

May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing STOC '97**

Publisher: ACM Press

Full text available: pdf(1.73 MB) Additional Information: full citation, references, citings, index terms

8 Measuring system normality

Mark Burgess, Hårek Haugerud, Sigmund Straumsnes, Trond Reitan

May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Publisher: ACM Press

Full text available: pdf(794.43 KB) Additional Information: full citation, abstract, references, citings, index terms

A comparative analysis of transaction time-series is made, for light to moderately loaded hosts, motivated by the problem of anomaly detection in computers. Criteria for measuring the statistical state of hosts are examined. Applying a scaling transformation to the measured data, it is found that the distribution of fluctuations about the mean is closely approximated by a steady-state, maximum-entropy distribution, modulated by a periodic variation. The shape of the distribution, under these con ...

Keywords: Anomaly detection, statistical mechanics

9 The MARUTI hard real-time operating system

S. Levi, S. K. Tripathi, S. D. Carson, A. K. Agrawala

July 1989 **ACM SIGOPS Operating Systems Review**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, citings, index terms

The MARUTI operating system is designed to support real-time applications on a variety of hardware systems. The kernel supports objects as primitive entities, and provides a communication mechanism that allows transparent distribution in networked systems. Fault tolerance is provided through replication and consistency-control mechanisms. Most importantly, MARUTI supports guaranteed-service scheduling, in which jobs that are accepted by the system are verified to satisfy general time constraints ...

10 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels

Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using

on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

11 Phoenix: a parallel programming model for accommodating dynamically joining/leaving resources

Kenjiro Taura, Kenji Kaneda, Toshio Endo, Akinori Yonezawa

June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming PPoPP '03**, Volume 38 Issue 10

Publisher: ACM Press

Full text available: pdf(197.86 KB) Additional Information: full citation, abstract, references, index terms

This paper proposes Phoenix, a programming model for writing parallel and distributed applications that accommodate dynamically joining/leaving compute resources. In the proposed model, nodes involved in an application see a large and fixed *virtual node name space*. They communicate via messages, whose destinations are specified by virtual node names, rather than names bound to a physical resource. We describe Phoenix API and show how it allows a transparent migration of application states ...

Keywords: distributed programming, message passing, migration, parallel programming, resource reconfiguration

12 Distributed operating systems

Andrew S. Tanenbaum, Robbert Van Renesse

December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

Publisher: ACM Press

Full text available: pdf(5.49 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...

13 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: full citation

14 Distributed systems: Dynamo: amazon's highly available key-value store

Giuseppe DeCandia, Deniz Hastorun, Madan Jampani, Gunavardhan Kakulapati, Avinash Lakshman, Alex Pilchin, Swaminathan Sivasubramanian, Peter Vosshall, Werner Vogels

October 2007 **Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles SOSP '07**

Publisher: ACM Press

Full text available: pdf(894.07 KB) Additional Information: full citation, abstract, references, index terms

Reliability at massive scale is one of the biggest challenges we face at Amazon.com, one of the largest e-commerce operations in the world; even the slightest outage has significant financial consequences and impacts customer trust. The Amazon.com platform, which provides services for many web sites worldwide, is implemented on top of an infrastructure of tens of thousands of servers and network components located in many datacenters around the world. At this scale, small and large components ...

Keywords: performance, reliability, scalability

15 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels
May 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 2
Publisher: ACM Press

Full text available: pdf(341.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

16 Routing in a delay tolerant network

Sushant Jain, Kevin Fall, Rabin Patra
August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4
Publisher: ACM Press

Full text available: pdf(527.10 KB) Additional Information: full citation, abstract, references, citings, index terms

We formulate the delay-tolerant networking routing problem, where messages are to be moved end-to-end across a connectivity graph that is time-varying but whose dynamics may be known in advance. The problem has the added constraints of finite buffers at each node and the general property that no contemporaneous end-to-end path may ever exist. This situation limits the applicability of traditional routing approaches that tend to treat outages as failures and seek to find an existing end-to-end pa ...

Keywords: delay tolerant network, routing

17 Migration of processes, files, and virtual devices in the MDX operating system

Harald Schrimpf
April 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 2
Publisher: ACM Press

Full text available: pdf(983.96 KB) Additional Information: full citation, abstract, citings, index terms

Load management in distributed systems is usually focused on balancing process execution and communication load. Stress on storage media and I/O-devices is considered only indirectly or disregarded. For I/O-intensive processes this imposes severe

restrictions on balancing algorithms: processes have to be placed relative to fixed allocated resources. Therefore, beyond process migration, there is a need for a migration of all operating system objects, like files, pipes, timers, virtual terminals, ...

18 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

19 Cryptography and data security

Dorothy Elizabeth Robling Denning
January 1982 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB) Additional Information: full citation, abstract, references, cited by, index terms

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

20 Design, analysis, and implementation of DVSR: a fair high-performance protocol for packet rings

Violeta Gambiroza, Ping Yuan, Laura Balzano, Yonghe Liu, Steve Sheafor, Edward Knightly
February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1
Publisher: IEEE Press

Full text available: pdf(671.81 KB) Additional Information: full citation, abstract, references, citings, index terms

The Resilient Packet Ring (RPR) IEEE 802.17 standard is a new technology for high-speed backbone metropolitan area networks. A key performance objective of RPR is to simultaneously achieve high utilization, spatial reuse, and fairness, an objective not achieved by current technologies such as SONET and Gigabit Ethernet nor by legacy ring technologies such as FDDI. The core technical challenge for RPR is the design of a bandwidth allocation algorithm that dynamically achieves these three properti ...

Keywords: dynamic bandwidth allocation, fairness, metro rings, scheduling

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